

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P1219579

Luminaire Tested: **LDSQA4A35950D010TE LAR35FL 4LSQA1H 30°**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P1219579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26801)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA4A35950D010TE LAR35FL 4LSQA1H 30°  
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 35° FLOOD, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

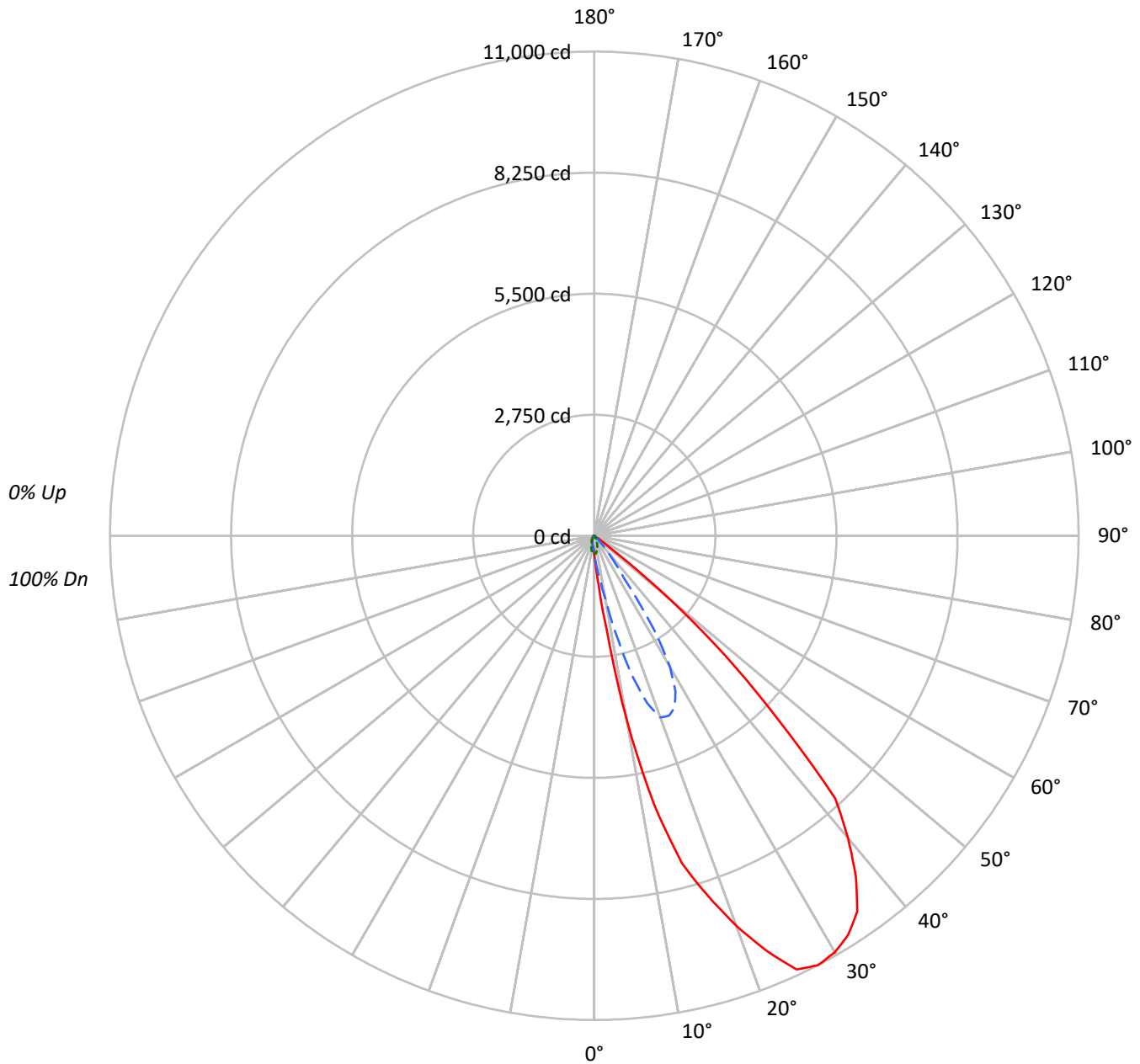
Lumens per Lamp: N/A  
Luminaire Lumens: 3603.3 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Spacing Criteria (0/90/45): 2.46 / 0.59 / 1.2  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 47.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P1219579

CATALOG NUMBER: LDSQA4A35950D010TE LAR35FL 4LSQA1H 30°

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219579

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 84  | 83  |    |    |
| 3   | 99  | 91  | 85  | 81  | 97  | 90  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 72  | 91  | 82  | 76  | 71  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 60  |    |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 41  |    |    |
| 10  | 62  | 50  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 90°   | 180°  |
|-----|---------|-------|-------|
| 0°  | 40736   | 40736 | 40736 |
| 5°  | 107116  | 38801 | 25332 |
| 10° | 419941  | 33574 | 21091 |
| 15° | 773117  | 26457 | 18685 |
| 20° | 971494  | 18701 | 17000 |
| 25° | 1162036 | 12335 | 15168 |
| 30° | 1221982 | 7752  | 13289 |
| 35° | 1231852 | 4683  | 11507 |
| 40° | 1133529 | 3136  | 9801  |
| 45° | 806479  | 2261  | 8124  |
| 50° | 333253  | 1718  | 6722  |
| 55° | 19220   | 1672  | 5827  |
| 60° | 2209    | 1589  | 4805  |
| 65° | 734     | 1880  | 3415  |
| 70° | 906     | 1869  | 2323  |
| 75° | 1198    | 2470  | 2470  |
| 80° | 0       | 3682  | 2734  |
| 85° | 0       | 7336  | 3557  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219579

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.1   | 1.8       |
| 10°-20°   | 528.0  | 14.7      |
| 20°-30°   | 1092.1 | 30.3      |
| 30°-40°   | 1188.9 | 33.0      |
| 40°-50°   | 651.9  | 18.1      |
| 50°-60°   | 56.4   | 1.6       |
| 60°-70°   | 9.2    | 0.3       |
| 70°-80°   | 6.6    | 0.2       |
| 80°-90°   | 4.1    | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1686.2 | 46.8      |
| 0°-40°    | 2875.1 | 79.8      |
| 0°-60°    | 3583.4 | 99.4      |
| 0°-90°    | 3603.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3603.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90° | 135° | 180° | Flux |
|-----|-------|------|-----|------|------|------|
| 0°  | 420   | 420  | 420 | 420  | 420  |      |
| 5°  | 1102  | 754  | 399 | 275  | 260  | 201  |
| 15° | 7709  | 3240 | 264 | 178  | 186  | 2153 |
| 25° | 10871 | 4310 | 115 | 109  | 142  | 4909 |
| 35° | 10416 | 1179 | 40  | 63   | 97   | 6392 |
| 45° | 5887  | 120  | 16  | 34   | 59   | 4493 |
| 55° | 114   | 13   | 10  | 22   | 34   | 389  |
| 65° | 3     | 5    | 8   | 13   | 15   | 5    |
| 75° | 3     | 5    | 7   | 10   | 7    | 2    |
| 85° | 0     | 3    | 7   | 5    | 3    | 0    |
| 90° | 0     | 0    | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 420.5   | 420.5   | 420.5   | 420.5  | 420.5  | 420.5  | 420.5  | 420.5  | 420.5  | 420.5  | 420.5  |
| 2.5°  | 661.2   | 638.1   | 634.8   | 638.1  | 621.6  | 620.0  | 623.3  | 610.1  | 598.5  | 587.1  | 577.1  |
| 5°    | 1101.5  | 1053.6  | 1038.9  | 1019.1 | 969.6  | 953.1  | 949.7  | 897.0  | 845.9  | 798.1  | 753.5  |
| 7.5°  | 2140.3  | 2044.6  | 1993.5  | 1894.6 | 1742.9 | 1675.2 | 1639.0 | 1466.0 | 1304.3 | 1157.5 | 1024.0 |
| 10°   | 4269.0  | 4018.4  | 3896.4  | 3710.1 | 3378.6 | 3215.4 | 3096.6 | 2661.4 | 2232.7 | 1820.4 | 1457.6 |
| 12.5° | 6229.6  | 6091.1  | 5911.4  | 5812.4 | 5274.9 | 5068.8 | 4872.5 | 4269.0 | 3616.1 | 2949.9 | 2288.7 |
| 15°   | 7708.6  | 7505.8  | 7314.5  | 7268.5 | 6846.3 | 6605.6 | 6387.8 | 5763.0 | 4986.3 | 4138.8 | 3240.1 |
| 17.5° | 8577.6  | 8432.5  | 8251.2  | 8163.7 | 7669.2 | 7474.6 | 7227.2 | 6622.1 | 5866.7 | 5022.5 | 3978.9 |
| 20°   | 9423.5  | 9209.1  | 8953.6  | 8821.7 | 8274.2 | 8050.0 | 7769.7 | 7133.2 | 6333.5 | 5436.5 | 4392.6 |
| 22.5° | 10196.9 | 9919.8  | 9557.1  | 9352.6 | 8737.5 | 8490.2 | 8177.0 | 7487.7 | 6622.1 | 5596.3 | 4427.4 |
| 25°   | 10871.3 | 10620.6 | 10137.5 | 9779.6 | 9054.1 | 8762.2 | 8397.9 | 7677.4 | 6725.9 | 5583.2 | 4310.3 |
| 27.5° | 10999.9 | 10831.7 | 10398.0 | 9984.1 | 9164.7 | 8839.9 | 8462.2 | 7716.8 | 6653.4 | 5400.3 | 3995.3 |
| 30°   | 10924.0 | 10742.7 | 10394.7 | 9972.7 | 9118.5 | 8790.4 | 8397.9 | 7548.7 | 6369.7 | 4973.1 | 3418.2 |
| 32.5° | 10741.0 | 10584.3 | 10168.9 | 9723.6 | 8891.0 | 8549.5 | 8135.7 | 7154.6 | 5883.4 | 4293.7 | 2514.6 |
| 35°   | 10416.2 | 10180.4 | 9679.1  | 9313.1 | 8529.8 | 8178.6 | 7672.4 | 6628.6 | 5156.2 | 3086.7 | 1178.9 |
| 37.5° | 9754.9  | 9525.8  | 9164.7  | 8826.6 | 8063.1 | 7649.3 | 7115.0 | 5896.4 | 3822.1 | 1683.6 | 728.7  |
| 40°   | 8963.4  | 8765.6  | 8450.6  | 8122.5 | 7336.0 | 6859.4 | 6270.8 | 4608.8 | 2249.1 | 948.1  | 448.6  |
| 42.5° | 8102.7  | 7898.4  | 7542.1  | 7159.6 | 6302.2 | 5799.4 | 5162.7 | 2982.9 | 1185.6 | 558.9  | 244.1  |
| 45°   | 5886.6  | 5703.7  | 5444.7  | 5169.3 | 4672.9 | 4310.3 | 3472.6 | 1566.4 | 656.2  | 296.8  | 120.4  |
| 47.5° | 4028.3  | 3810.7  | 3332.5  | 2753.6 | 2232.7 | 1909.4 | 1436.2 | 679.3  | 336.3  | 148.4  | 70.9   |
| 50°   | 2211.2  | 1980.3  | 1736.4  | 1352.1 | 905.2  | 743.7  | 578.8  | 328.1  | 151.7  | 74.2   | 39.6   |
| 52.5° | 542.6   | 479.9   | 438.7   | 403.9  | 319.9  | 288.6  | 244.1  | 136.8  | 69.3   | 41.3   | 28.0   |
| 55°   | 113.8   | 105.6   | 100.6   | 98.9   | 90.7   | 87.5   | 75.8   | 52.7   | 38.0   | 26.3   | 13.3   |
| 57.5° | 33.0    | 31.3    | 33.0    | 33.0   | 33.0   | 31.3   | 31.3   | 23.1   | 21.5   | 13.3   | 8.2    |
| 60°   | 11.4    | 11.4    | 11.4    | 13.3   | 13.3   | 13.3   | 14.9   | 14.9   | 11.4   | 8.2    | 6.6    |
| 62.5° | 4.9     | 4.9     | 4.9     | 6.6    | 6.6    | 8.2    | 8.2    | 8.2    | 6.6    | 6.6    | 4.9    |
| 65°   | 3.2     | 3.2     | 3.2     | 3.2    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 67.5° | 3.2     | 3.2     | 3.2     | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 4.9    |
| 70°   | 3.2     | 3.2     | 3.2     | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 4.9    |
| 72.5° | 3.2     | 3.2     | 3.2     | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 4.9    |
| 75°   | 3.2     | 3.2     | 3.2     | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 4.9    |
| 77.5° | 0.0     | 0.0     | 0.0     | 1.7    | 1.7    | 1.7    | 1.7    | 3.2    | 3.2    | 3.2    | 4.9    |
| 80°   | 0.0     | 0.0     | 0.0     | 1.7    | 1.7    | 1.7    | 1.7    | 3.2    | 3.2    | 3.2    | 3.2    |
| 82.5° | 0.0     | 0.0     | 0.0     | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 3.2    | 3.2    | 3.2    |
| 85°   | 0.0     | 0.0     | 0.0     | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 3.2    | 3.2    | 3.2    |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 3.2    | 3.2    | 3.2    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 420.5  | 420.5  | 420.5  | 420.5 | 420.5 | 420.5 | 420.5 | 420.5 | 420.5 | 420.5 | 420.5 |
| 2.5°  | 549.0  | 532.6  | 512.8  | 491.4 | 488.2 | 476.5 | 460.0 | 437.0 | 428.7 | 412.4 | 397.4 |
| 5°    | 689.3  | 644.7  | 598.5  | 557.2 | 544.2 | 525.9 | 496.4 | 455.1 | 428.7 | 399.0 | 374.3 |
| 7.5°  | 877.1  | 775.0  | 680.9  | 606.7 | 583.6 | 554.0 | 507.8 | 455.1 | 415.6 | 374.3 | 341.3 |
| 10°   | 1127.8 | 920.1  | 758.5  | 638.1 | 600.2 | 560.6 | 499.6 | 435.2 | 389.2 | 341.3 | 306.6 |
| 12.5° | 1611.1 | 1132.8 | 831.1  | 654.6 | 601.8 | 550.7 | 473.2 | 403.9 | 351.2 | 303.4 | 268.8 |
| 15°   | 2290.4 | 1536.8 | 977.8  | 666.2 | 585.3 | 522.7 | 432.0 | 361.1 | 308.4 | 263.8 | 230.8 |
| 17.5° | 2864.2 | 1919.3 | 1174.1 | 699.2 | 573.8 | 486.5 | 384.2 | 311.6 | 260.5 | 221.0 | 194.6 |
| 20°   | 3144.4 | 2090.8 | 1263.1 | 704.1 | 540.9 | 432.0 | 328.1 | 258.9 | 214.4 | 181.4 | 158.2 |
| 22.5° | 3111.5 | 2033.1 | 1180.5 | 616.7 | 456.8 | 364.5 | 272.1 | 209.4 | 171.5 | 145.2 | 128.6 |
| 25°   | 2890.6 | 1782.4 | 963.0  | 471.6 | 356.1 | 295.2 | 212.8 | 163.3 | 133.5 | 115.4 | 102.2 |
| 27.5° | 2519.6 | 1431.1 | 702.4  | 333.1 | 270.4 | 224.2 | 158.2 | 125.3 | 102.2 | 89.1  | 80.8  |
| 30°   | 1940.8 | 915.2  | 403.9  | 239.2 | 196.2 | 159.8 | 118.8 | 90.7  | 77.5  | 69.3  | 62.7  |
| 32.5° | 1000.9 | 445.2  | 268.8  | 171.5 | 138.5 | 115.4 | 82.4  | 65.9  | 57.7  | 52.7  | 49.5  |
| 35°   | 549.0  | 316.7  | 186.3  | 110.3 | 89.1  | 74.2  | 56.1  | 46.2  | 42.8  | 39.6  | 39.6  |
| 37.5° | 377.5  | 196.2  | 103.9  | 65.9  | 54.4  | 46.2  | 38.0  | 33.0  | 31.3  | 31.3  | 31.3  |
| 40°   | 217.7  | 103.9  | 59.3   | 41.3  | 34.5  | 31.3  | 26.3  | 24.8  | 24.8  | 24.8  | 26.3  |
| 42.5° | 112.0  | 60.9   | 39.6   | 28.0  | 24.8  | 21.5  | 18.1  | 18.1  | 18.1  | 19.9  | 21.5  |
| 45°   | 65.9   | 41.3   | 26.3   | 18.1  | 16.5  | 14.9  | 13.3  | 13.3  | 14.9  | 16.5  | 18.1  |
| 47.5° | 41.3   | 28.0   | 16.5   | 11.4  | 9.9   | 9.9   | 9.9   | 9.9   | 11.4  | 13.3  | 14.9  |
| 50°   | 28.0   | 14.9   | 9.9    | 6.6   | 6.6   | 6.6   | 6.6   | 8.2   | 9.9   | 11.4  | 13.3  |
| 52.5° | 14.9   | 8.2    | 6.6    | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 8.2   | 9.9   | 11.4  |
| 55°   | 8.2    | 6.6    | 4.9    | 4.9   | 4.9   | 4.9   | 4.9   | 6.6   | 8.2   | 9.9   | 11.4  |
| 57.5° | 6.6    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 8.2   | 9.9   |
| 60°   | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 8.2   | 9.9   |
| 62.5° | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 8.2   | 8.2   |
| 65°   | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 8.2   | 8.2   |
| 67.5° | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 6.6   | 8.2   |
| 70°   | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 6.6   | 6.6   | 8.2   |
| 72.5° | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 6.6   | 6.6   |
| 75°   | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 6.6   | 6.6   | 6.6   | 6.6   | 6.6   | 8.2   |
| 77.5° | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 6.6   | 6.6   | 6.6   |
| 80°   | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 6.6   | 6.6   | 6.6   |
| 82.5° | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 6.6   | 6.6   | 6.6   |
| 85°   | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 6.6   | 6.6   | 6.6   | 6.6   | 6.6   | 6.6   |
| 87.5° | 4.9    | 4.9    | 4.9    | 4.9   | 4.9   | 4.9   | 6.6   | 6.6   | 6.6   | 6.6   | 6.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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CATALOG NUMBER: LDSQA4A35950D010TE LAR35FL 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 420.5 | 420.5 | 420.5 | 420.5  | 420.5 | 420.5 | 420.5 | 420.5 | 420.5 | 420.5 | 420.5 |
| 2.5°  | 389.2 | 376.0 | 362.9 | 362.9  | 356.1 | 346.3 | 343.0 | 333.1 | 326.5 | 323.2 | 319.9 |
| 5°    | 356.1 | 336.3 | 318.2 | 316.7  | 308.4 | 296.8 | 291.9 | 281.8 | 275.4 | 272.1 | 270.4 |
| 7.5°  | 318.2 | 298.5 | 280.3 | 277.1  | 270.4 | 262.2 | 257.2 | 249.0 | 245.6 | 242.4 | 240.9 |
| 10°   | 281.8 | 262.2 | 249.0 | 245.6  | 240.9 | 234.1 | 229.2 | 224.2 | 221.0 | 219.3 | 219.3 |
| 12.5° | 245.6 | 230.8 | 219.3 | 216.1  | 212.8 | 207.7 | 204.5 | 201.1 | 199.5 | 199.5 | 199.5 |
| 15°   | 212.8 | 199.5 | 189.7 | 189.7  | 186.3 | 182.9 | 182.9 | 179.7 | 178.0 | 179.7 | 181.4 |
| 17.5° | 179.7 | 169.8 | 161.5 | 161.5  | 159.8 | 158.2 | 158.2 | 158.2 | 159.8 | 161.5 | 164.9 |
| 20°   | 148.4 | 140.2 | 136.8 | 136.8  | 135.1 | 136.8 | 136.8 | 138.5 | 140.2 | 145.2 | 150.0 |
| 22.5° | 120.4 | 115.4 | 112.0 | 113.8  | 113.8 | 115.4 | 117.1 | 120.4 | 123.7 | 128.6 | 133.5 |
| 25°   | 97.3  | 94.0  | 92.4  | 94.0   | 95.7  | 97.3  | 100.6 | 103.9 | 108.8 | 113.8 | 120.4 |
| 27.5° | 77.5  | 75.8  | 75.8  | 77.5   | 79.1  | 82.4  | 87.5  | 90.7  | 95.7  | 100.6 | 107.1 |
| 30°   | 62.7  | 60.9  | 62.7  | 65.9   | 67.6  | 70.9  | 74.2  | 79.1  | 84.0  | 89.1  | 95.7  |
| 32.5° | 49.5  | 51.1  | 52.7  | 54.4   | 56.1  | 60.9  | 64.4  | 67.6  | 72.6  | 77.5  | 84.0  |
| 35°   | 41.3  | 42.8  | 44.6  | 46.2   | 47.8  | 51.1  | 54.4  | 57.7  | 62.7  | 67.6  | 74.2  |
| 37.5° | 33.0  | 34.5  | 36.2  | 39.6   | 41.3  | 42.8  | 47.8  | 49.5  | 54.4  | 57.7  | 64.4  |
| 40°   | 28.0  | 29.6  | 31.3  | 33.0   | 34.5  | 38.0  | 41.3  | 42.8  | 46.2  | 51.1  | 56.1  |
| 42.5° | 23.1  | 24.8  | 26.3  | 28.0   | 29.6  | 33.0  | 34.5  | 38.0  | 41.3  | 44.6  | 47.8  |
| 45°   | 19.9  | 21.5  | 23.1  | 24.8   | 26.3  | 28.0  | 29.6  | 33.0  | 34.5  | 38.0  | 41.3  |
| 47.5° | 16.5  | 18.1  | 21.5  | 21.5   | 23.1  | 24.8  | 26.3  | 28.0  | 31.3  | 33.0  | 36.2  |
| 50°   | 14.9  | 16.5  | 18.1  | 19.9   | 19.9  | 21.5  | 23.1  | 24.8  | 26.3  | 28.0  | 31.3  |
| 52.5° | 13.3  | 14.9  | 16.5  | 16.5   | 18.1  | 19.9  | 21.5  | 21.5  | 23.1  | 24.8  | 26.3  |
| 55°   | 11.4  | 13.3  | 14.9  | 14.9   | 16.5  | 18.1  | 18.1  | 19.9  | 21.5  | 21.5  | 23.1  |
| 57.5° | 11.4  | 11.4  | 13.3  | 13.3   | 14.9  | 14.9  | 16.5  | 18.1  | 18.1  | 19.9  | 21.5  |
| 60°   | 9.9   | 11.4  | 11.4  | 13.3   | 13.3  | 14.9  | 14.9  | 16.5  | 16.5  | 18.1  | 18.1  |
| 62.5° | 9.9   | 9.9   | 11.4  | 11.4   | 13.3  | 13.3  | 14.9  | 14.9  | 14.9  | 16.5  | 16.5  |
| 65°   | 9.9   | 9.9   | 11.4  | 11.4   | 11.4  | 13.3  | 13.3  | 13.3  | 13.3  | 14.9  | 14.9  |
| 67.5° | 8.2   | 9.9   | 9.9   | 11.4   | 11.4  | 11.4  | 11.4  | 11.4  | 13.3  | 13.3  | 13.3  |
| 70°   | 8.2   | 9.9   | 9.9   | 9.9    | 9.9   | 11.4  | 11.4  | 11.4  | 11.4  | 11.4  | 11.4  |
| 72.5° | 8.2   | 8.2   | 8.2   | 8.2    | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   |
| 75°   | 8.2   | 8.2   | 8.2   | 8.2    | 8.2   | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   |
| 77.5° | 8.2   | 8.2   | 8.2   | 8.2    | 8.2   | 8.2   | 8.2   | 8.2   | 8.2   | 8.2   | 8.2   |
| 80°   | 6.6   | 6.6   | 6.6   | 6.6    | 6.6   | 8.2   | 6.6   | 6.6   | 6.6   | 6.6   | 6.6   |
| 82.5° | 6.6   | 6.6   | 6.6   | 6.6    | 6.6   | 6.6   | 6.6   | 6.6   | 6.6   | 4.9   | 4.9   |
| 85°   | 6.6   | 6.6   | 6.6   | 6.6    | 6.6   | 6.6   | 6.6   | 4.9   | 4.9   | 4.9   | 4.9   |
| 87.5° | 6.6   | 6.6   | 6.6   | 4.9    | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 3.2   | 3.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219579

CATALOG NUMBER: LDSQA4A35950D010TE LAR35FL 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 420.5 | 420.5 | 420.5  | 420.5 | 420.5 | 420.5 | 420.5 | 420.5 |
| 2.5°  | 315.0 | 311.6 | 315.0  | 311.6 | 311.6 | 305.0 | 309.9 | 306.6 |
| 5°    | 265.5 | 262.2 | 265.5  | 263.8 | 260.5 | 258.9 | 262.2 | 260.5 |
| 7.5°  | 237.4 | 234.1 | 237.4  | 237.4 | 234.1 | 232.4 | 235.8 | 234.1 |
| 10°   | 216.1 | 214.4 | 216.1  | 216.1 | 214.4 | 212.8 | 216.1 | 214.4 |
| 12.5° | 197.8 | 196.2 | 199.5  | 199.5 | 197.8 | 197.8 | 201.1 | 197.8 |
| 15°   | 181.4 | 181.4 | 184.6  | 184.6 | 184.6 | 184.6 | 188.0 | 186.3 |
| 17.5° | 164.9 | 168.3 | 171.5  | 173.2 | 173.2 | 173.2 | 176.5 | 176.5 |
| 20°   | 151.7 | 155.0 | 158.2  | 159.8 | 161.5 | 161.5 | 164.9 | 164.9 |
| 22.5° | 136.8 | 140.2 | 145.2  | 146.7 | 148.4 | 150.0 | 153.4 | 153.4 |
| 25°   | 123.7 | 127.0 | 131.9  | 133.5 | 136.8 | 138.5 | 141.9 | 141.9 |
| 27.5° | 110.3 | 115.4 | 118.8  | 122.0 | 123.7 | 127.0 | 130.2 | 130.2 |
| 30°   | 98.9  | 103.9 | 107.1  | 110.3 | 112.0 | 115.4 | 118.8 | 118.8 |
| 32.5° | 87.5  | 92.4  | 95.7   | 98.9  | 102.2 | 103.9 | 108.8 | 108.8 |
| 35°   | 77.5  | 80.8  | 85.7   | 87.5  | 90.7  | 94.0  | 97.3  | 97.3  |
| 37.5° | 67.6  | 70.9  | 74.2   | 77.5  | 80.8  | 82.4  | 85.7  | 87.5  |
| 40°   | 59.3  | 62.7  | 65.9   | 67.6  | 70.9  | 74.2  | 75.8  | 77.5  |
| 42.5° | 51.1  | 54.4  | 57.7   | 59.3  | 62.7  | 64.4  | 67.6  | 67.6  |
| 45°   | 44.6  | 47.8  | 49.5   | 51.1  | 54.4  | 56.1  | 59.3  | 59.3  |
| 47.5° | 38.0  | 41.3  | 42.8   | 44.6  | 46.2  | 47.8  | 51.1  | 51.1  |
| 50°   | 33.0  | 34.5  | 36.2   | 38.0  | 39.6  | 42.8  | 44.6  | 44.6  |
| 52.5° | 28.0  | 31.3  | 31.3   | 33.0  | 34.5  | 36.2  | 38.0  | 39.6  |
| 55°   | 24.8  | 26.3  | 28.0   | 28.0  | 29.6  | 31.3  | 33.0  | 34.5  |
| 57.5° | 21.5  | 23.1  | 24.8   | 24.8  | 26.3  | 26.3  | 28.0  | 29.6  |
| 60°   | 19.9  | 19.9  | 21.5   | 21.5  | 21.5  | 23.1  | 23.1  | 24.8  |
| 62.5° | 16.5  | 16.5  | 18.1   | 18.1  | 18.1  | 18.1  | 18.1  | 18.1  |
| 65°   | 14.9  | 14.9  | 14.9   | 14.9  | 14.9  | 14.9  | 14.9  | 14.9  |
| 67.5° | 13.3  | 13.3  | 13.3   | 13.3  | 11.4  | 11.4  | 11.4  | 11.4  |
| 70°   | 11.4  | 11.4  | 11.4   | 11.4  | 9.9   | 9.9   | 9.9   | 8.2   |
| 72.5° | 9.9   | 9.9   | 9.9    | 9.9   | 8.2   | 8.2   | 6.6   | 6.6   |
| 75°   | 8.2   | 8.2   | 8.2    | 8.2   | 8.2   | 6.6   | 6.6   | 6.6   |
| 77.5° | 8.2   | 6.6   | 6.6    | 6.6   | 6.6   | 6.6   | 6.6   | 4.9   |
| 80°   | 6.6   | 6.6   | 4.9    | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   |
| 82.5° | 4.9   | 4.9   | 4.9    | 4.9   | 3.2   | 3.2   | 3.2   | 3.2   |
| 85°   | 4.9   | 3.2   | 3.2    | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   |
| 87.5° | 3.2   | 1.7   | 1.7    | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180°    - - 45°-225°    - - - 90°-270°

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